

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/SE 2003/001768

## A. CLASSIFICATION OF SUBJECT MATTER

**IPC7: H01P 1/16**

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

**IPC7: H01J, H01P, H01Q**

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

**SE, DK, FI, NO classes as above**

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## EPO-INTERNAL, WPI DATA, PAJ, INSPEC

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0330539 A1 (THOMSON-CSF), 30 August 1989 (30.08.1989), the whole document --	1-16
A	GB 468548 A (WESTERN ELECTRIC COMPANY INCORPORATED), 7 July 1937 (07.07.1937), the whole document --	1-3
A	EISENHART, R. L.: "A novel wideband TM01-to-TE11 mode convertor". IEEE MTT-S DIGEST, 1998, Vol. 1, pages 249-252, AN: 5985784 --	1,3

 Further documents are listed in the continuation of Box C. See patent family annex.

- \* Special categories of cited documents
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed
- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

29 January 2004

Date of mailing of the international search report

16-02-2004

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4999591 A (KOSLOVER, R.A. ET AL), 12 March 1991 (12.03.1991), cited in the application; see the whole document --	1,3
A	YANG, S. et al.: "Optimization of novel high-power millimeter-wave TM01-TE11 mode converters". IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, April 1997, Vol. 45, No. 4, pages 552-554, AN: 5561877 --	1,3
A	JANZEN, J.: "Mode converters from TE0m to TEm0 for high-power applications in the frequency range 1 to 30 GHz". INT. J. ELECTRONICS, 1984, Vol. 57, No. 6, pages 1219-1224, AN: 2531643 -----	1-16

## INTERNATIONAL SEARCH REPORT

Information on patent family members

24/12/2003

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EP	0330539	A1	30/08/1989	FR	2627633	A,B	25/08/1989
				JP	2009202	A	12/01/1990
				US	4973924	A	27/11/1990
GB	468548	A	07/07/1937	DE	738361	C	00/00/0000
				FR	49564	E	11/05/1939
				FR	49566	E	11/05/1939
				FR	818503	A	30/09/1937
				GB	491196	A	29/08/1938
				NL	47517	C	00/00/0000
				NL	49995	C	00/00/0000
				NL	79472	C	00/00/0000
				US	2129669	A	13/09/1938
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